Dipkumar Patel

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Education

Ahmedabad University

B.TECH IN ICT

2015-2019 CGPA: 3.66/4.33

Links

Github://immortal3

Coursework

Coursera

Deep Learning Specialization (all 5 courses)

Undergraduate

Machine Learning Computer Vision Introduction to Blockchain Cloud Computing High Performance Computing Information System Security

Skills

Programming

• Python, C/C++, JavaScript, Java, MySQL

Libraries

• Tensorflow, Pytorch, Opencv, Keras, Pandas

Software

• git, MATLAB, Xilinx ISE

Platform

• Linux. Window

Experience

Fero.Al | Machine Learning Intern

Jan 2019 - May 2019 | Ahmedabad, India

ESTIMATING SIMILARITY IN TWO VIDEO FILES

- Searching Near Duplicate video in a massive database of videos
- Worked on the BTech final semester project. Project Focused on providing a portal for reverse video-search. Improved signature extraction from video and retrieval of similar signature.
- Implementation using OpenCV, Flask, and Postgresql (CUBE Extension).

Fusion Informatics | Computer Vision Intern

May 2018 - June 2018 | Ahmedabad, India

ARTIFICIAL INTELLIGENCE DRIVEN CCTV SURVEILLANCE

- Created CCTV surveillance software for classification and localization of human with a weapon(knife and pistol), fire, and smoke.
- Other features include identifying previously detected human with a weapon, support for multiple cameras including IP cameras and email alerts.

Publication

• Raj Dhamsaniya, **Dipkumar** and Harshkumar Patel. MMPL (Medicine Multi-Participant Ledger) at International Workshop on Blockchain Technologies (IWBT 2018), NIT Warangal. (Accepted)

Projects

Image Saliency Detection | LINK ()

• As Human, We only focus on certain part of Image which is called salient region. This Project predicts Saliency map of given Image which is useful in many areas like Robotics, Image-aware editing, caption generation, fast-response systems.

Autoencoder Based Communication System | LINK (?)

• Implementation of Novel Deep Learning based End-to-End communication System which can outperform state-of-the-art modulation Schemes. Autoencoder is used to tackle noise of channel in communication through end-to-end learning.

Binary Gender Classification from Facial Image | LIVE DEMO

• A project on determining the gender of a person form live surveillance feed as well as images. Implemented Compact CNN (Convolutional Neural Network) and gained F1-score of 0.94 with real-time performance. Trained model was converted into tensorflow.js compatible for client-side deployment.

File System (EbFs) | LINK ()

• Created Portable and secure hierarchical File System from scratch. EbFs is inspired by ext2fs (Linux file system) which used inode for storing meta-data.

Honors and Achievement

Winner of Ingenious Hackathon 2017

• Created Application in 24-hour which can detect user's different hand gestures. Different action(e.g. pause/play music) can be performed using hand gestures.